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(21) 国際出願番号 PCT/JP94/00879 (22) 国際出願日 1994年5月31日 (31.05.94)  (30) 優先権データ 特許平5/168349 1993年6月16日 (16.06.93) JP 特許平5/242115 1993年9月3日 (03.09.93) JP 特許平6/46048 1994年3月16日 (16.03.94) JP  (71) 出願人 (米国の他国に於いて) 東洋電化工業株式会社 (TOYO DENKA KOGYO CO., LTD.) [JP/JP] 〒780 高知県高知市萩町2丁目2番25号 Kochi, (JP) (72) 発明者: および (75) 発明者/出願人 (米国の他国に於いて) 山本晋平 (YAMAMOTO, Shinpei) [JP/JP] 〒780 高知県高知市玉水町59番地 Kochi, (JP) 高木和広 (TAKAGI, Kazuhiro) [JP/JP] 〒780 高知県高知市鶴屋1513-1 鶴川コーポ2716 Kochi, (JP) 清谷悦民 (KIYOTANI, Eitami) [JP/JP] 〒781-02 高知県高知市藤戸西町2丁目305 Kochi, (JP) 饒元岩雄 (KAGIMOTO, Iwane) [JP/JP] 〒780 高知県高知市永国寺町1丁目27 Kochi, (JP) 河谷健一 (KARIYA, Shinichi) [JP/JP] 〒783 高知県南国市前浜2358 Kochi, (JP) 松本 聡 (MATUMOTO, Satoshi) [JP/JP] 〒116 東京都荒川区東尾久2丁目29番9号 Tokyo, (JP)	(74) 代理人 弁護士 高月 猛 (TAKATSUKI, Takeshi) 〒105 東京都港区虎ノ門2丁目7番9号 第1関名ビル 高月国際特許事務所 Tokyo, (JP)  (81) 指定国 BR, CA, US, 欧州特許 (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).  添付公開書類 国際調査報告書	
(54) Title : WATER TREATMENT METHOD AND WATER TREATMENT APPARATUS		
(54) 発明の名称 水処理方法及び水処理装置  		
(57) Abstract This invention aims at providing water treatment techniques capable of carrying out a high-performance water purifying treatment by efficiently removing a synthetic organic compound, such as a surface active agent for a detergent and components of agricultural chemicals from contaminated water having a comparatively low load of, for example, BOD. To achieve this object, a utilizable filter medium formed by depositing a substrate having a specific utilizable by the target microorganisms on a porous base material, such as charcoal, is used as the filter medium, with which contaminated water to be treated is brought into contact under aerobic conditions. Using the utilizable filter medium in this manner enables specified microorganisms having a high efficiency of removing synthetic organic contaminants to be selectively utilized, and synthetic organic compounds to be efficiently removed.		



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Title **WO9429224A1: WATER TREATMENT METHOD AND WATER TREATMENT APPARATUS**

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Country Kind **WO** World Intellectual Property Organization (WIPO)  
**A1** Publ. of the Int. Appl. with Int. search report

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► Interested in classification by use rather than just by description?

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Abstract

This invention aims at providing water treatment techniques capable of carrying out a high-performance water purifying treatment by efficiently removing a synthetic organic compound, such as a surface active agent for a detergent and components of agricultural chemicals from contaminated water having a comparatively low load of, for example, BOD. To achieve this object, a utilizable filter medium formed by depositing a substrate having a specific utilizability by the target microorganisms on a porous base material, such as charcoal, is used as the filter medium, with which



contaminated water to be treated is brought into contact under aerobic conditions. Using the utilizable filter medium in this manner enables specified microorganisms having a high efficiency of removing synthetic organic contaminants to be selectively utilized, and synthetic organic compounds to be efficiently removed.  
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